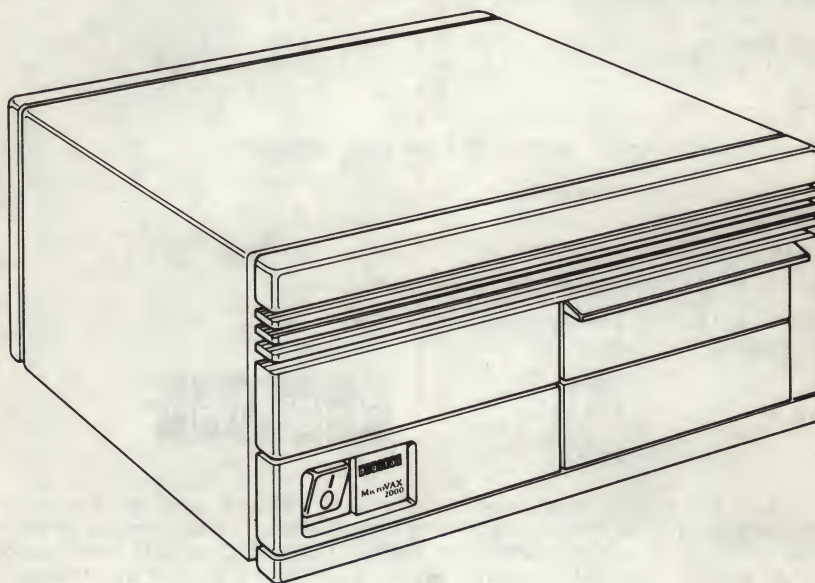


MicroVAX 2000

Owner's Manual Addendum:

DST32 Synchronous Serial Line Option

Order Number EK-SYNCH-OM-001



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digital equipment corporation
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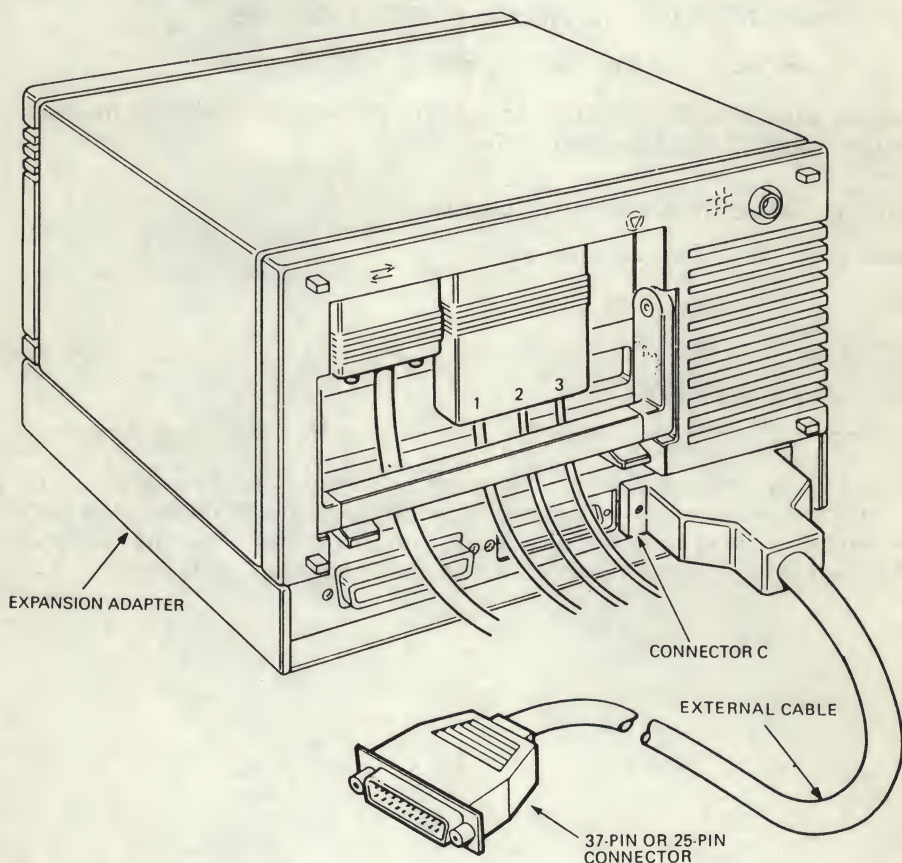
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1 Introduction

The DST32 is a communication adapter for the MicroVAX 2000 system. It is nondirect memory access, and provides connection to one synchronous port. The option comprises one controller module, one driver/receiver module, internal cabling, and a connector in port C on the rear of the expansion adapter. In addition, one of three external cabling variations is required for the connection of a host computer or modem to this serial line.



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The DST32 synchronous device controller supports the following protocols:

- HDLC (LAPB/LABPE)
- SDLC

The following list shows the external cables offered with the DST32 option. You should receive cables for only one type of communication protocol as part of your shipment. They are all 50-pin cables.

- For RS232/V.24 communications: BC19V-02 cable and RS232C adapter connector
- For RS422/V.36 communications: BC19U-02 cable
- For RD423/V.10 communications: BC19W-02 cable

If you are using RS232/V.24 communications, and want to connect a modem, you also need a BC22F modem cable (Table 1).

Table 1: Modem Extension Cables

Modem Cable	Communication Type
BC22F-xx*	RS232/V.24
BC55D-xx	RS423/V.10 or RS422/V.36

*Where xx is the cable length.

You can order a new system with this option already installed. If you want this option installed in a system already on your site, a qualified service representative must perform the installation. In either case, the user can make the external cable connections to a host computer or modem.

2 Power-Up

To power up the MicroVAX 2000 after installation of the DST32 option, first power up the console terminal (the one connected to connector 1 on the DEC423 converter on the back of the system unit). Then power up all peripheral devices, including all terminals. Finally, power up the system unit.

The console terminal should display the following:

```
KA410-A V2.1
```

```
F...E...D...C...B...A...9...8...7...6...5...4...3...2...1...
```

```
? C 0080 0000.4001
```

NOTE: The question mark and associated letters and numbers above are normal power-up indications in the MicroVAX 2000, and do not denote a failure.

When you type TEST 50 and press Return at the console prompt (> > >), your console terminal should display text similar to the following, depending on the configuration of your system.

```
>>> TEST 50
```

```
KA410-A V2.0
```

```
ID 08-00-2B-02-CF-A4
```

```
CLK 0000.0001
```

```
NVR 0000.0001
```

```
? DZ 0000.4001
```

```
00004001 00000001 00000001 00000001 00000000 00000000
```

```
MEM 0004.0001
```

```
00400000
```

```
MM 0000.0001
```

```
FP 0000.0001
```

```
IT 0000.0001
```

```
HDC 1710.0001
```

```
000146B8 00000000 00000320
```

```
TPC 0000.4001
```

```
FFFFFFF03 FFFFFFF05 FFFFFFF05 FFFFFFF05 FFFFFFF05 FFFFFFF05 FFFFFFF05
```

```
SYS 0000.0001
```

```
DST_32 0000.0001
```

```
NI 0000.0001
```

```
>>>
```

NOTE: The question mark associated with the DZ mnemonic is a normal power-up indication in the MicroVAX 2000, and does not represent a failure.

If you see question marks displayed beside the mnemonic DST_32, the DST32 option is failing the test. Use the rest of this addendum, together with chapter 2 of the *MicroVAX 2000 Owner's Manual*, to diagnose the problem.

3 Troubleshooting

If the system exhibits problems after DST32 option installation, or if failures appear during operation, run the tests described in this section. Check the connections between the system unit and host computer or modem.

3.1 Self-Test

When you type TEST 4 and press Return at the console prompt (> > >), your console terminal should display the following:

```
>>> TEST 4
      4...
>>>
```

A failing DST32 option gives the following display:

```
>>> TEST 4
      4?...
      84 FAIL
>>>
```

If the system fails this test, there is a problem in the internal circuitry of the DST32 option. You must call a service representative to have repairs made.

3.2 Exerciser

If you see no error indications in the power-up display but your system exhibits problems, run the system exerciser.

When you type TEST 0 and press Return at the console prompt (> > >), the console terminal displays text similar to the following:

```
KA410-A V2.1          01      CU
?? C  0080    DZ      0000.2020      6      0 00:05:01.53
   B  0010    MEM      00D7.0001      3      0 00:04:54.74
   7  0090    HDC      0000.0001      9      0 00:04:58.93
                        0700.0001
   6  00A0    TPC      8000.0001      3      0 00:04:55.35
   4  00F0    DST_32   0000.0001      2      0 00:04:54.71
>>>
```

NOTE: The question marks associated with the DZ mnemonic are normal indications in the MicroVAX 2000, and do not represent a failure.

If you see any question marks on the line beginning with "4", the DST32 option is failing the test and you must call a service representative. Be prepared to give your representative the results of any tests you have run.

1. The first part of the report is a general
description of the project and its objectives.
It also includes a brief history of the project
and a list of the people involved in it.

2. The second part of the report is a detailed
description of the project and its objectives.
It also includes a brief history of the project
and a list of the people involved in it.

3. The third part of the report is a detailed
description of the project and its objectives.
It also includes a brief history of the project
and a list of the people involved in it.